

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference JNR / PG4881	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT / EP 03 / 07937	International filing date (<i>day/month/year</i>) 17/07/2003	(Earliest) Priority Date (<i>day/month/year</i>) 19/07/2002
Applicant GLAXO GROUP LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 9 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :
 - contained in the international application in written form.
 - filed together with the international application in computer readable form.
 - furnished subsequently to this Authority in written form.
 - furnished subsequently to this Authority in computer readable form.
 - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
 - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished
- 2. Certain claims were found unsearchable (See Box I).
- 3. Unity of invention is lacking (see Box II).
- 4. With regard to the title,
 - the text is approved as submitted by the applicant.
 - the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

9b

None of the figures.

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Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

line 6, after "outlet" add "(620)"
line 9, after "means" add "(649)"

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-15

A medicament dispenser for use with a medicament carrier having multiple distinct medicament doses carried thereby, comprising:
indexing means and counting means for counting each time a distinct medicament dose of the medicament carrier is indexed by said indexing means
wherein said counting means is provided as a distinct electronic counter unit that is reversibly receivable by the medicament dispenser

2. Claims: 16-25

A medicament dispenser for use with a medicament carrier having multiple distinct medicament doses carried thereby, comprising indexing means and analogue counting means for counting each time a distinct medicament dose of the medicament carrier is indexed by said indexing means and manipulating means to manipulate an analogue count indicium provided by said analogue counting means

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B65D83/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B65D A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
5 X	US 6 360 739 B1 (GODFREY JAMES WILLIAM ET AL) 26 March 2002 (2002-03-26) column 2, line 47 -column 7, line 20; figures 1,7	1,2,5,6, 9-12,14 3,4,7,8, 15, 20-22,24
8 X	WO 86 02275 A (DRACO AB) 24 April 1986 (1986-04-24) page 7, line 4 - line 7; figure 5	16,17,19
8 X	WO 01 17597 A (STRAUB MARIANN ;GREENWOOD MARK H (US); SAPPHIRE DESIGNS INC (US)) 15 March 2001 (2001-03-15) column 11, line 29 - line 45	18

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

10 December 2003

Date of mailing of the international search report

07.01.04

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International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
8 P,X	GB 2 372 543 A (BESPAK PLC) 28 August 2002 (2002-08-28) page 5, line 21 - line 23, claim 14; figures 1,2 ---	16,17,19
9 Y	WO 01 41846 A (BONNEY STANLEY GEORGE ;DAVIES MICHAEL BIRSHA (GB); JONES ANTHONY P) 14 June 2001 (2001-06-14) page 34, line 5 - line 25 page 39, line 4 - line 25; figure 1 ---	20-22,24
A	page 34, line 5 - line 25 page 39, line 4 - line 25; figure 1 ---	23,25
5 Y	US 5 544 647 A (EBELING FREDERICK A ET AL) 13 August 1996 (1996-08-13) figures 1,5 ---	3,4,15
5 Y	US 6 029 659 A (O'CONNOR JAMES A) 29 February 2000 (2000-02-29) figure 5 ---	7,8
1 A	"LE DISTRIBUTEUR A RUBAN DISKUS" ANNALES FRANCAISES DE CHRONOMETRIE ET DE MICROTECHNIQUE, OBSERVATOIRE DE BESANCON. BESANCON, FR, vol. 47, 1998, pages 97-105, XP000830919 ISSN: 0294-1228 page 99; figure VUE ---	1
6 A	US 2002/066451 A1 (DAVIES MICHAEL BIRSHA ET AL) 6 June 2002 (2002-06-06) paragraph [0051] -----	1
2		

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6360739	B1	26-03-2002	AT 251481 T AU 741693 B2 AU 8213798 A BR 9809554 A DE 69818819 D1 EP 0988077 A1 JP 2000513633 T US 2002195102 A1 AP 1126 A AT 215389 T AU 741218 B2 AU 8213898 A AU 742913 B2 AU 8436498 A BR 9809980 A BR 9809983 A CN 1265601 T DE 69804609 D1 DE 69804609 T2 DK 986412 T3 EA 1396 B1 EG 21520 A WO 9856444 A1 WO 9856445 A1 WO 9856446 A1 EP 1163922 A2 EP 0988078 A1 EP 0986412 A1 ES 2175737 T3 HK 1023956 A1 HR 980304 A1 HU 0003328 A2 JP 2000513632 T JP 2000513634 T NO 996085 A NZ 501379 A PL 337316 A1 PT 986412 T TR 9903066 T2 TW 533865 Y US 6474331 B1 US 6431168 B1 US 2003209239 A1 ZA 9804944 A	15-10-2003 06-12-2001 30-12-1998 20-06-2000 13-11-2003 29-03-2000 17-10-2000 26-12-2002 05-12-2002 15-04-2002 29-11-2001 30-12-1998 17-01-2002 30-12-1998 01-08-2000 01-08-2000 06-09-2000 08-05-2002 12-09-2002 22-07-2002 26-02-2001 28-11-2001 17-12-1998 17-12-1998 17-12-1998 19-12-2001 29-03-2000 22-03-2000 16-11-2002 27-09-2002 30-04-1999 28-02-2001 17-10-2000 17-10-2000 09-02-2000 26-04-2002 14-08-2000 30-09-2002 21-07-2000 21-05-2003 05-11-2002 13-08-2002 13-11-2003 08-12-1999
WO 8602275	A	24-04-1986	AU 4969885 A DE 8590143 U1 DK 269086 A EP 0197113 A1 ES 8701660 A1 FI 862440 A JP 62500361 T NO 862098 A PT 81272 A ,B WO 8602275 A1 ZA 8507761 A	02-05-1986 02-04-1987 09-06-1986 15-10-1986 01-03-1987 06-06-1986 19-02-1987 27-05-1986 01-11-1985 24-04-1986 28-05-1986
WO 0117597	A	15-03-2001	US 6516799 B1	11-02-2003

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Information on patent family members

International Application No

PCT/EP 03/07937

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 0117597	A	AU 7121400 A CA 2388958 A1 EP 1229955 A1 JP 2003508166 T WO 0117597 A1 US 2002189611 A1		10-04-2001 15-03-2001 14-08-2002 04-03-2003 15-03-2001 19-12-2002
GB 2372543	A	28-08-2002	EP 1362325 A1 WO 02069253 A1	19-11-2003 06-09-2002
WO 0141846	A	14-06-2001	AU 2006601 A AU 2509901 A AU 2510001 A AU 2672501 A AU 3007801 A WO 0141845 A1 WO 0141846 A1 WO 0141847 A2 WO 0141848 A1 WO 0141849 A2 EP 1235604 A1 EP 1235606 A1 EP 1235607 A1 EP 1235608 A2 EP 1235609 A2 JP 2003516196 T JP 2003516197 T JP 2003516198 T JP 2003520075 T JP 2003516199 T TW 482689 B US 2002189612 A1 US 2003000524 A1 US 2003079744 A1 US 2003005926 A1 AU 2302802 A WO 0234318 A2 EP 1326668 A2	18-06-2001 18-06-2001 18-06-2001 18-06-2001 18-06-2001 14-06-2001 14-06-2001 14-06-2001 14-06-2001 14-06-2001 04-09-2002 04-09-2002 04-09-2002 04-09-2002 04-09-2002 13-05-2003 13-05-2003 13-05-2003 02-07-2003 13-05-2003 01-04-2002 19-12-2002 02-01-2003 01-05-2003 09-01-2003 06-05-2002 02-05-2002 16-07-2003
US 5544647	A	13-08-1996	AT 211399 T AU 687290 B2 AU 4236096 A CA 2181789 A1 DE 69524865 D1 DE 69524865 T2 EP 0746366 A1 ES 2170814 T3 JP 3307946 B2 JP 9508845 T NO 963134 A NZ 297246 A WO 9616686 A1 US 5622163 A ZA 9510129 A	15-01-2002 19-02-1998 19-06-1996 06-06-1996 07-02-2002 29-08-2002 11-12-1996 16-08-2002 29-07-2002 09-09-1997 28-08-1996 22-09-1997 06-06-1996 22-04-1997 06-06-1996
US 6029659	A	29-02-2000	NONE	
US 2002066451	A1	06-06-2002	US 6378519 B1	30-04-2002

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/07937

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002066451	A1	US 6032666 A	07-03-2000
		US 5860419 A	19-01-1999
		US 5873360 A	23-02-1999
		US 5590645 A	07-01-1997
		AP 310 A	07-01-1994
		AT 401007 B	28-05-1996
		AT 43791 A	15-10-1995
		AU 675825 B2	20-02-1997
		AU 5926794 A	16-06-1994
		AU 645056 B2	06-01-1994
		AU 7202591 A	05-09-1991
		BE 1003798 A4	16-06-1992
		BR 9100843 A	05-11-1991
		CA 2037421 A1	03-09-1991
		CH 683319 A5	28-02-1994
		CN 1054893 A ,B	02-10-1991
		CN 1107687 A ,B	06-09-1995
		CZ 283168 B6	14-01-1998
		CZ 9601807 A3	16-12-1998
		CY 2010 A	20-02-1998
		CY 2014 A	20-02-1998
		CZ 285501 B6	11-08-1999
		DE 4106379 A1	05-09-1991
		DK 37991 A	03-09-1991
		ES 2031763 A6	16-12-1992
		FI 911037 A	03-09-1991
		FI 990115 A	21-01-1999
		FR 2659558 A1	20-09-1991
		FR 2660550 A1	11-10-1991
		GB 2242134 A ,B	25-09-1991
		GB 2274273 A ,B	20-07-1994
		GR 91100096 A ,B	30-06-1992
		HK 18895 A	17-02-1995
		HK 19195 A	17-02-1995
		HR 940631 A1	31-08-1996
		IE 910698 A1	11-09-1991
		IL 97396 A	31-12-1995
		IT 1244655 B	08-08-1994
		JP 3110477 B2	20-11-2000
		JP 4220266 A	11-08-1992
		KR 210412 B1	15-07-1999
		KR 244004 B1	15-03-2000
		LU 87898 A1	16-11-1992
		NL 9100381 A ,B,	01-10-1991
		NO 910836 A	03-09-1991
		NO 302929 B1	11-05-1998
		NO 980033 A	05-01-1998
		NZ 237274 A	27-02-1996
		NZ 260140 A	27-02-1996